

Attorney Docket No.: FMCE-P145

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In the Claims:

1 (currently amended): A control system for a subsea installation, the control system comprising:

- a control module;
- a common bus which is connected to the control module and which comprises at least one cable unit; and
- a plurality of devices which are each removably connectable to the common bus;

wherein each device comprises a bus controller having a unique address; ~~and~~

wherein the control module comprises means for communicating with each device over the common bus; and

wherein the common bus further comprises at least one from the group consisting of an end termination and a repeater, each of which is removably connectable to the cable unit.

2 (canceled).

3 (currently amended): A control system according to claim ~~[[2]]~~ 1, wherein the cable unit comprises a cable having at least one electrical connector at each end.

4 (currently amended): A control system according to claim ~~[[2]]~~ 1, wherein the common bus further comprises at least one distribution hub which is removably connectable to the cable unit.

5 (canceled).

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6 (canceled).

7 (canceled).

8 (previously amended): A control system according to claim 3, wherein said at least one electrical connector is removably connectable to at least one of said plurality of devices.

9 (previously amended): A control system according to claim 1, wherein the common bus comprises a CAN bus.

10 (previously amended): A control system according to claim 1, wherein at least one of said plurality of devices comprises a battery.

11 (previously amended): A control system according to claim 1, wherein at least one of said plurality of devices comprises an electro-hydraulic pod.

12 (previously amended): A control system according to claim 1, wherein at least one of said plurality of devices comprises an actuator.

13 (previously amended): A control system according to claim 1, wherein at least one of said plurality of devices comprises a sensor.

14 (canceled).

15 (canceled).

16 (currently amended): A control system according to claim 15, for a subsea installation which comprises:

a control module;

a common bus which is connected to the control module and which comprises at least one cable unit; and

a plurality of devices which are each removably connectable to the

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cable unit;

wherein each device comprises a bus controller having a unique

address;

wherein the control module comprises means for communicating

with each device over the common bus;

wherein said cable unit comprises a junction, at least one electrical connector and at least two control signal supply cables extending between said junction and said electrical connector; and

wherein said at least two control signal supply cables are electrically joined at said electrical connector.

17 (currently amended): A control system according to claim ~~[[14]]~~ 16, wherein said cable unit further comprises ~~at least one electrical connector and at least two control signal return cables extending between said junction and said electrical connector.~~

18 (canceled).

19 (currently amended): A control system ~~according to claim 14, for a subsea installation which comprises:~~

a control module;

a common bus which is connected to the control module and which comprises at least one cable unit; and

a plurality of devices which are each removably connectable to the cable unit;

wherein each device comprises a bus controller having a unique

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address;

wherein the control module comprises means for communicating
with each device over the common bus;

wherein said cable unit ~~further~~ comprises a junction, at least one
electrical connector and at least two control signal cables~~[[,]]~~; and
~~each of which comprises~~ wherein each of said control signal cables
comprises a current loop which is routed through each said electrical connector
and said ~~central~~ junction.

20 (previously amended): A control system according to claim 3, wherein
at least one electrical connector comprises a female connector.

21 (previously amended): A control system according to claim 3, wherein
at least one electrical connector comprises a male connector.

22 (previously amended): A control system according to claim 3, wherein
at least one electrical connector comprises a signal termination component.